



#9 13599

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
)
MICHAEL LINDSAY BELL et al.)
)
Serial No.: 09/990,678)
)
Filing Date: November 14, 2001)
)
For: ANALYTE DETECTION SYSTEM)
)

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sir:

Attached is a Form PTO-1449 listing documents believed to be relevant to the above-identified application. It is respectfully requested that these documents be considered by the Examiner and an initialled copy of the form be returned to the undersigned.

It should be noted that the word "prior" has been deleted from the form.

It is believed that this disclosure complies with the requirements of 37 C.F.R. 1.56 and the Manual of Patent Examining Procedures Section 707.05(b). If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be promptly remedied.

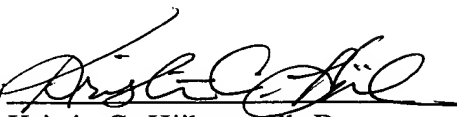
Some part of the documents may have markings thereon. No significance is meant to be attached to the markings.

The Commissioner is hereby authorized to charge any fees associated with this communication to Deposit Account No. 19-2090.

Respectfully submitted,

SHELDON & MAK

Date: 12/10/01

By 
Kristin C. Hiibner, Ph.D.
Reg. No. P-50,139

225 South Lake Avenue
Ninth Floor
Pasadena, California 91101
(626) 796-4000

INFORMATION DISCLOSURE CITATION <small>(Use Several Sheets, if necessary)</small>		Docket Number 13599		Application Number 09/990,678			
		Applicant(s) Michael Lindsay Bell et al.					
		Filing Date November 14, 2001				Group Art Unit	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,585,241	12/17/96	Lindmo			
	B	5,571,388	11/5/96	Patonay et al.			
	C	6,159,748	12/12/00	Hechinger			
	D	4,661,913	4/28/87	Wu et al.			
	E	5,162,863	11/10/92	Ito			
	F	4,745,285	5/17/88	Recktenwald et al.			
	G	5,028,545	7/02/91	Soini			
	H	5,880,474	3/9/99	Norton et al.			
	I	5,682,038	10/28/97	Hoffman			
	J	5,627,040	5/6/97	Bierre et al.			
	K	5,736,330	4/7/98	Fulton			

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	L	WO 99/37814	7/29/99				
	M	WO 99/19515	4/22/99				
	N	EP 0 670 374	05/13/98				
	O	EP 0 753 584	7/5/96				
	P						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
Q	Strekowski, Lucjan, <i>Substitution Reactions of a Nucleofugal Group in Heptamethine Cyanine Dyes. Synthesis of an Isothiocyanate Derivative for Labeling of Proteins with a Near-Infrared Chromophore</i> , J. Org. Chem. 57, 4578-4580 (1992)
R	Slominskii, Y.L., <i>Polymethine Dyes with Hydrocarbon Bridges, Enamino Ketones in the Chemistry of Cyanine Dyes</i> , Journal of Organic Chemistry of the USSR, Vol. 19, No. 10, pp. 2134-2142 (1983)
S	Strekowski, Lucjan, <i>Facile Derivations of Heptamethine Cyanine Dyes</i> , Synthetic Communications, 22(17), 2593-2598 (1992)

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <small>(Use Several sheets if necessary)</small>		Docket Number 13599		Application Number 09/990,678			
		Applicant(s) Michael Lindsay Bell et al.					
		Filing Date November 14, 2001			Group Art Unit		

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	2,887,479	5/19/59	Heseltine			
	B	2,895,955	7/21/59	Heseltine et al.			
	C	4,325,706	4/20/82	Gershman et al.			
	D	4,499,052	2/12/85	Fulwyler			
	E	4,729,947	3/8/88	Middendorf et al.			
	F	4,839,265	6/13/99	Ohno et al.			
	G	4,933,269	6/12/90	Parton et al.			
	H	5,037,734	8/6/91	Lenhard et al.			
	I	5,061,618	10/21/91	Parton et al.			
	J	5,207,880	5/4/93	Middendorf et al.			
	K	5,268,486	12/7/93	Waggoner et al.			

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	L							
	M							
	N							
	O							
	P							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
Q	Slominskii, Y.L., <i>Tricarbocyanines with Hydrogen Rings in the Chromophore</i> , Journal of Organic Chemistry of the USSR, Vol. 40, NO. 6, pp. 625-628 (1974)
R	Arnold, Z., <i>Synthetic Reactions of Dimethylformamide. XXII. Formation and Preparation of Formyl Derivatives of Indene</i> , Collection Czechoslov. Chem. Commun., Vol. 30, 2783-2792 (1965)
S	Reynolds, G.A., <i>Stable Heptamethine Pyrylium Dyes That Absorb in the Infrared</i> , J. Org. Chem., Vol. 42, No. 5, 885-888 (1977)

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use Several sheets if necessary)		Docket Number 13599		Application Number 09/990,678	
		Applicant(s) Michael Lindsay Bell et al.			
		Filing Date November 14, 2001		Group Art Unit	

OIPE 3041
 FEB 14 2002

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,312,921	5/17/94	Glazer et al.			
	B	5,321,130	6/14/94	Yue et al.			
	C	5,366,603	11/22/94	Middendorf et al.			
	D	5,375,606	12/27/94	Slezak et al.			
	E	5,410,030	4/25/95	Yue et al.			
	F	5,556,959	9/17/96	Brush et al.			
	G	5,571,388	11/5/96	Patonay et al.			
	H	5,747,349	5/5/98	van den Engh et al.			
	I	5,808,044	9/15/98	Brush et al.			
	J	5,986,086	11/16/99	Brush et al.			
	K	6,048,982	4/11/00	Waggoner			
	L	4,882,265	11/21/89	Lagaanis et al.			

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	M							
	N							
	O							
	P							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
Q	Sosnovskii, G.M., <i>Synthesis of Meso-Substituted Tricarbocyanine Dyes With An Ortho-Phenylene Bridge In The Chromophore</i> , Journal of Organic Chemistry of the USSR, Vol. 19, No. 10, 1861-1864 (1983)
R	Makin, S.M., <i>Aminoformylation of Unsaturated Aldehydes 2-Alkoxyaldehydes and Their Acetals, and Keytones of the Alicyclic Series</i> , Journal of Organic Chemistry of the USSR, Vol. 13, No. 6, 1093-1096 (1977)
S	Webb, J.P., <i>Sixteen New Infrared Laser Dyes Excited By A Simple Linear Flashlamp</i> , Eastman Organic Chemical Bulletin, Vol. 46, No. 3, 1-6 (1974)

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use Several Sheets if necessary)		Docket Number 13599		Application Number 09/990,678	
		Applicant(s) Michael Lindsay Bell et al.			
		Filing Date November 14, 2001		Group Art Unit	

OIPE JC41
 FEB 14 2002

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	4,973,572	11-27-90	DeBoer			
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
	J						
	K						

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	L							
	M							
	N							
	O							
	P							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
Q	Russian reference by Tolmachev et al. (full cite is in Russian)
R	Narayanan, N., <i>A New Method for the Synthesis for Heptamethine Cyanine Dyes: Synthesis of New Near-Infrared Fluorescent Labels</i> , J. Org. Chem. 60, 2391-2395 (1995)
S	Strekowski, L., <i>Functionalization of Near-Infrared Cyanine Dyes</i> , . Heterocyclic Chem., 33, 1685-1688 (1996)

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use Several Sheets if necessary)		Docket Number 13599		Application Number 09/990,678	
		Applicant(s) Michael Lindsay Bell et al.			
		Filing Date November 14, 2001		Group Art Unit	

OIP 23041 2002
 FEB 14 2002

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A						
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
	J						
	K						

FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	L							
	M							
	N							
	O							
	P							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
	R	Narayanan, N., <i>New Near Infrared Dyes for Applications in Bioanalytical Methods</i> , SPIC Vol. 2388, 6-15 (1995)
	R	Pierce, Brian M., <i>Lasing Properties of Several Near-IR Dyes for a Nitrogen laser-Pumped Dye Laser with an Optical Amplifier</i> , IEEE Journal of Quantum Electronics, Vol. QE-18, No. 7 (1982)
	S	

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.